

Sheet 1 of 6

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 3220-100466	SERIAL NO. 10/550,427
	APPLICANT Webster et al.	
	FILING DATE October 5, 2006	GROUP 3738

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA 6,929,539	Aug. 16, 2005	Schutz et al.			
	AB 6,881,249	April 19, 2005	Anderson et al.			
	AC 6,797,514	Sept. 28, 2004	Berenson et al.			
	AD 6,790,455	Sept. 14, 2004	Chu et al.			
	AE 6,756,286	June 29, 2004	Moriceau et al.			
	AF 6,689,374	Feb. 10, 2004	Chu et al.			
	AG 6,669,706	Dec. 30, 2003	Schmitt et al.			
	AH 6,572,672	June 3, 2003	Yadav et al.			
	AI 6,396,208	May 28, 2002	Oda et al.			
	AJ 6,368,859	Apr. 9, 2002	Atala			
	AK 6,355,198	Mar. 12, 2002	Kim et al.			

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	Document Number	Date	Country	Class	Subclass	Translation Yes No
AL	WO 03/05000	July 24, 2003	WO			
AM	WO 01/55473	Aug. 2, 2001	WO			
AN	WO 03/015806	Feb. 27, 2003	WO			no copies
AO						
AP						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	J. Black and G. Hastings, "Handbook of Biomaterial Properties", Chapman & Hall, pgs. 40-47 (1998)
AS	Mankin et al., "Orthopaedic Basic Science - Chapter 1 Form and Function of Articular Cartilage", <i>American Academy of Orthopaedic Surgeons</i> , pgs. 1-45, (1994)
AT	Kay et al., "Nanostructured Polymer/Nanophase Ceramic Composites Enhance Osteoblast and Chondrocyte Adhesion", <i>Tissue Engineering</i> , Vol. 8, No. 5, pgs 753-761, (2002)
AU	Thapa et al., "An Investigation of Nano-structured Polymers for Use as Bladder Tissue Replacement Constructs", <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 711, pgs 205-210, (2002)
AV	Miller et al., "An In Vitro Study of Nano-fiber Polymers for Guided Vascular Regeneration", <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 711, pgs. 201-204, (2002)
AW	Jun et al., "An In Vitro Study of Chondrocyte Function on Nanostructured Polymer/Ceramic Formulations to Improve Cartilage Repair", <i>Nano 2002 Conference Abstract Book</i> , Orlando, FL, pg 269, (2002)
AX	Tepper et al., "Nanosized alumina fibers," <i>American Ceramic Society Bulletin</i> , 80(6):57-60 (2001).
AY	Webster et al., "An in vitro evaluation of nanophase alumina for orthopaedic/dental applications," <i>Bio Ceramics Volume 11 (Proceedings of the 11th International Symposium on Ceramics in Medicine)</i> , 273-16 (LeGeros & LeGeros eds., World Scientific Publishing Co, 1998).
AZ	Webster et al., "Hydroxylapatite with substituted magnesium, zinc, cadmium, and yttrium. II. Mechanisms of osteoblast adhesion," <i>J. Biomed. Mater. Res.</i>, 59:312-17 (2002).

Examiner /Bruce Snow/	Date Considered 03/24/2010
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	BA	6,344,367	Fe. 5, 2002	Naya et al.			
	BB	6,319,264	Nov. 20, 2001	Tormala et al.			
	BC	6,291,070	Sept. 18, 2001	Arpac et al.			
	BD	6,262,017	July 17, 2001	Dee et al.			
	BE	6,183,255	Feb. 6, 2001	Oshida			
	BF	6,106,913	Aug. 22, 2000	Scardino et al.			
	BG	5,733,337	Mar. 31, 1998	Carr Jr. et al.			
	BH	5,415,704	May 16, 1995	Davidson			
	BI	5,306,311	April 26, 1994	Stone et al.			
	BJ	5,292,328	Mar. 8, 1994	Hain et al.			
	BK	4,998,239	Mar. 5, 1991	Strandjord et al.			
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	BL						
	BM						
	BN						
	BO						
	BP						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
BR	Dec et al., "Design and function of novel osteoblast-adhesive peptides for chemical modification of biomaterials," <i>J. Biomed. Mater. Res.</i> , 40:371-77 (1998).						
BS	Webster et al., "Specific proteins mediate enhanced osteoblast adhesion on nanophase ceramics," <i>J. Biomed. Mater. Res.</i> , 51:475-83 (2000).						
BT	Webster et al., "Enhanced functions of osteoblasts on nanophase ceramics," <i>Biomaterials</i> , 21:1803-10 (2000).						
BU	Curtis & Wilkinson, "Review. Topographical control of cells," <i>Biomaterials</i> , 18(24):1573-83 (1997).						
BV	Puleo & Bizios, "RGDS tetrapeptide binds to osteoblasts and inhibits fibronectin-mediated adhesion," <i>Bone</i> , 12:271-76 (1991).						
BW	Siegel, "Creating nanophase materials," <i>Scientific American</i> , 275(6):74 (1996).						
BX	Webster et al., "Design and evaluation of nanophase alumina for orthopaedic/dental applications," <i>Nanostructured Materials</i> , 12:983-86 (1999).						
BY	Webster et al., "Enhanced surface and mechanical properties of nanophase ceramics to achieve orthopaedic/dental implant efficacy," <i>Key Engineering Materials</i> , Vols. 192-195, pp 321-24 (Proceedings of the 13th international symposium on ceramics in medicine, Bologna, Italy, 2000 (Trans Tech Publications, 2001)).						
BZ	Webster et al., "Mechanisms of enhanced osteoblast adhesion on nanophase alumina involve vitronectin," <i>Tissue Engineering</i> , 7(3):291-301 (2001).						
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	CA	4,795,436	Jan. 3, 1989	Robinson			
	CB	2006/0173471	Aug. 3, 2006	Carr Jr. et al.			
	CC	2004/0241211	Dec. 2, 2004	Fischell et al.			
	CD	2004/0171323	Sept. 2, 2004	Shalaby			
	CE	2004/0131753	July 8, 2004	Smith et al.			
	CF	2004/0104672	June 3, 2004	Shiang et al.			
	CG	2004/0028875	Feb. 12, 2004	Van Rijn et al.			
	CH	2003/0050711	Mar. 13, 2003	Laurencin et al.			
	CI	2003/0040809	Feb. 27, 2003	Goldmann et al.			
	CJ	2002/0173213	Nov. 21, 2002	Chu et al.			
	CK	2002/0173033	Nov. 21, 2002	Hammerick et al.			
FOREIGN PATENT DOCUMENTS							
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	CL						
	CM						
	CN						
	CO						
	CP						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	CR	Webster et al., "Nanoceramic surface roughness enhances osteoblast and osteoclast functions for improved orthopaedic/dental implant efficacy," <i>Scripta Mater.</i> , 44:1639-42 (2001).					
	CS	Jean-Louis Pariente et al., "In vitro biocompatibility assessment of naturally derive and synthetic biomaterials using normal human urothelial cells," <i>J. Biomed. Mater. Res.</i> , 55(1), (2001), pgs. 33-39					
	CT	Malachy J. Gleeson et al., "The use of alloplastic biomaterials in bladder substitution," <i>J. Urol.</i> , 148, (1992), pgs. 1377-1382					
	CU	Janeta Nikolovski et al., "Smooth muscle cell adhesion to tissue engineering scaffolds," <i>Biomater.</i> , 21, (2000), pgs. 2025-2032					
	CV	Anthony Atala et al., "Implantation <i>in vivo</i> and retrieval of artificial structures consisting of rabbit and human urothelium and human bladder muscle," <i>J. Urol.</i> , 150, (1993), pgs. 608-612					
	CW	M. J. Lyndon et al., "Cellular interactions with synthetic polymer surfaces in culture," <i>Biomater.</i> , 6, (1985), pgs. 396-402					
	CX	A. S. G. Curtis et al., "Adhesion of cells to polystyrene surfaces," <i>J. Cell Biol.</i> , 97, (1983), pgs. 1500-1506					
	CY	Joseph A. Chinn et al., "Enhancement of serum fibronectin adsorption and the clonal plating efficiencies of Swiss mouse 3T3 fibroblast and MM14 mouse myoblast cells on polymer substrates modified by radiofrequency plasma deposition," <i>J. Colloid Interface Sci.</i> , 127, (1989), pgs. 67-87					
	CZ	Paul Goldhaber, "The influence of pore size on carcinogenicity of subcutaneously implanted Millipore filters," <i>Proc. Am. Assoc. Cancer Res.</i> , 3 (1961), pg. 28					
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	DA	2002/0167118	Nov. 14, 2002	Billiet et al.			
	DB	6,805,998	Oct. 19, 2004	Wu et al.			
	DC	4,776,853	Oct. 11, 1988	Klement et al.			
	DD	4,902,508	Feb. 20, 1990	Badylak et al.			
	DE	5,281,422	Jan. 25, 1994	Badylak et al.			
	DF	5,372,821	Dec. 13, 1994	Badylak et al.			
	DG	5,573,784	Nov. 12, 1996	Badylak et al.			
	DH	5,744,515	Apr. 28, 1998	Clapper			
	DI	6,270,347	Aug. 7, 2001	Webster et al.			
	DJ						
	DK						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	DL						
	DM						
	DN						
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	DP						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	DR	J. Brauker et al., "Neovascularization of immunoisolation membranes: the effect of membrane architecture and encapsulated tissue," <i>Transplant Proc.</i> , 24, (1992); pg. 2924					
	DS	Paul Weiss, "In vitro experiments on the factors determining the course of the outgoing nerve fiber," <i>J. Exp. Zool.</i> , 68, (1945), pgs. 393-448					
	DT	G. A. Dunn et al., "Alignment of fibroblasts on grooved surfaces described by a simple geometric transformation," <i>J. Cell Sci.</i> , 83, (1986), pgs. 313-340					
	DU	J. Meyle et al., "Variation in contact guidance by human cells on a microstructured surface," <i>J. Biomed. Mater. Res.</i> , 29, (1995), pgs. 81-88					
	DV	John A. Schmidt et al., "Macrophage response to microtextured silicone," <i>Biomater.</i> , 12, (1992), pgs. 385-389					
	DW	Karen M. Haberstroh et al., "The effects of sustained hydrostatic pressure on select bladder smooth muscle cell functions," <i>J. Urol.</i> , 162, (1999), pgs. 2114-2118					
	DX	Jinming Gao et al., "Surface hydrolysis of poly(glycolic acid) meshes increases the seeding density of vascular smooth muscle cells," <i>J. Biomed. Mat. Res.</i> , 42, (1998), pgs. 417-424					
	DY	Mark A. Schubert et al., "Role of oxygen in biodegradation of poly(etherurethane urea) elastomers," <i>J. Biomed. Mat. Res.</i> , 34, (1997), pgs. 519-530					
	DZ	Thomas J. Webster et al., "Osteoblast adhesion on nanophase ceramics," <i>Biomaterials</i> , 20, (1999), pgs. 1221-1227					
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ER	M. Conley et al., "Effects of biodegradable polymer particles on rat marrow-derived stromal osteoblasts <i>in vitro</i> ," <i>Biomaterials</i> , 19, (1998), pgs. 1255-1268
ES	Susan L. Ishaug-Riley et al., "Three-dimensional culture of rat calvarial osteoblasts in porous biodegradable polymers," <i>Biomaterials</i> 19, (1998), pgs. 1405-1412
ET	Susan L. Ishaug-Riley et al., "Human articular chondrocyte adhesion and proliferation on synthetic biodegradable polymer films," <i>Biomaterials</i> , 20, (1999), pgs. 2245-2256
EU	Laurence S. Baskin et al., "Cellular Signaling in the Bladder," <i>www.bioscience.org</i> , <i>Frontiers in Bioscience</i> , 2, d592-595, (1997), 8 pgs.
EV	Gunnilla Dahlfors et al., "Vascular Endothelial Growth Factor and Transforming Growth Factor- β 1 Regulate the Expression of Insulin-Like Growth Factor-Binding Protein-3, -4, and -5 in Large Vessel Endothelial Cells," <i>The Endocrinology Society</i> , Vol. 141, No. 6, (2000), pgs. 2062-2067
EW	Jinning Gao et al., "Surface hydrolysis of poly(glycolic acid) meshes increases the seeding density of vascular smooth muscle cells," <i>J. Biomed Mater Res</i> , 42, (1998), pgs. 417-424
EX	Karen M. Haberstroh et al., "The Effects of Sustained Hydrostatic Pressure on Select Bladder Smooth Muscle Cell Functions," <i>The Journal of Urology</i> , Vol. 162, (1999), pgs. 2114-2118
EY	Antonios G. Mikos et al., "Preparation and Characterization of poly(L-lactic acid) foams," <i>Polymer</i> , Vol 35, No. 5, (1994), pgs. 1068-1077
EZ	Kenjiro Yamakawa et al., "Peroxisome Proliferator-Activated Receptor- γ Agonists Increase Vascular Endothelial Growth Factor Expression in Human Vascular Smooth Muscle Cells," <i>Biochemical and Biophysical Research Communications</i> , 271, (2000), pgs. 571-574

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FR	Young-Jo Kim et al., "Fluorometric Assay of DNA in Cartilage Explants Using Hoechst 33258," <i>Analytical Biochemistry</i> , 174, (1988), pgs. 168-176	
FS	Kari I. Kivirikko et al., "Modifications of a Specific Assay for Hydroxyproline in Urine," <i>Analytical Biochemistry</i> , 19, (1967), pgs. 249-255	
FT	C. B. Wilson et al., "Extracellular matrix and integrin composition of the normal bladder wall," <i>World J Urol</i> , 14, (1996), pgs. S30-S37	
FU	Paul Weiss, "Experiments on Cell and Axon Orientation in Vitro: The Role of Colloidal Exudates in Tissue Organization," <i>Journal of Experimental Zoology</i> , vol. 100(3), (1943), pgs 353-386	
FV		
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